

# Notice of Allowability

Application No.

10/648,104

Examiner

Gary Chin

Applicant(s)

WERNLI ET AL.

Art Unit

3661

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-16 and 18-21.
3. ☒ The drawings filed on 26 August 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 8/26/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 6/10/05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
GARY CHIN  
PRIMARY EXAMINER

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Lee on 6/9/05.

The application has been amended as follows:

(I) Claim 17 has been canceled.

(II) In claim 1, line 4 (first occurrence); claim 19, line 3; claim 20, line 4 (first occurrence) and claim 21, line 4 (first occurrence); after "estimate", the words --of said buoy-- have been inserted respectively.

(III) In claim 1, line 6; claim 19, line 7; claim 20, line 6 and claim 21, line 6; after "signals", the words -- of said buoy-- have been inserted respectively.

(IV) In claim 1, lines 9-10; claim 7, line 9; claim 13, line 15; claim 15, line 4; claim 19, lines 8-9 and 13; claim 20, line 9 and claim 21, line 9; after "position", the words --of said buoy-- have been inserted respectively.

(V) In claim 1, line 9; claim 20, line 9 and claim 21, line 9; before "time", the word "subsequent" has been changed to --acquisition-- respectively.

(VI) In claim 1, lines 12-13 and claim 19, line 11, the phrase "radio navigation position data and DRNS position data" has been changed to --the recorded radio navigation positions of said buoy and DRNS position data of said buoy-- respectively.

(VII) In claim 3, line 5, before “DRNS”, the words -- of said buoy-- have been inserted.

(VIII) In claim 5, lines 1-2, the words “using DRNS position error, buoy drift, radio navigation position data and DRNS position data” have been deleted.

(IX) In claim 5, lines 5-6 and claim 6, lines 8-9, the words “radio navigation position data” have been changed to --said recorded radio navigation positions-- respectively.

(X) In claim 6, line 7, after “extrapolating”, “a” has been changed to --said--.

(XI) In claim 13, lines 4 and 11, after “positions”, the words --of said buoy-- have been inserted respectively.

(XII) In claim 13, line 13, the phrase “radio navigation position data and DRNS position data” has been changed to --said radio navigation positions and DRNS position data of said buoy--.

(XIII) In claim 15, lines 1-2, the words “said processing means determines” have been deleted.

(XIV) In claim 16, line 2, after “determines”, “a” has been changed to --said--.

(XV) In claim 16, lines 2-3, the phrase “using DRNS position error, buoy drift, radio navigation position data and DRNS position data” has been deleted.

(XVI) In claim 16, lines 5-6, the words “radio navigation position data” have been changed to --said radio navigation positions--.

(XVII) In claim 18, line 2, after “extrapolates”, “a” has been changed to --said--.

(XVIII) In claim 20, lines 10-11 and claim 21, lines 10-11, the phrase “radio navigation position data and DRNS position data” has been changed to --said recorded initial navigation position and DRNS position data of said buoy-- respectively.

2. The following is an examiner's statement of reasons for allowance:

The claimed method for determining a submarine geographic position and submarine launched radio navigation buoy system in which the submarine geographic position is estimated by using the DRNS correction factor (as a function of a DRNS position error, a buoy drift, the recorded radio navigation positions and DRNS position data of the buoy) and the DRNS geographic position estimate of the buoy in combination with the other claimed features have neither been taught nor made obvious by the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

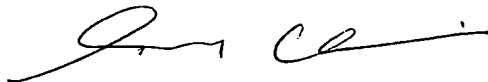
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary Chin whose telephone number is (571) 272-6959. The examiner can normally be reached on Monday-Friday 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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GARY CHIN  
PRIMARY EXAMINER